

FIG. 3

```

graph TD
    122[RF FREQUENCY GROUP  
GENERATES DATA FILES] --> 124[DATA FILES INPUT TO MAIN  
PROGRAM]
    124 --> 126[CREATE FILES:  
ctmret.i  
tpptmret.i  
dcchret.i  
dcchrad.i  
ceqsuret.i  
reselret.i  
fciret.i]
    126 --> 128[SEND FILE dcchrad.i TO ECP]
    128 --> 130[CREATE APXRCV SCRIPT  
FILES:  
E1dcch.ret  
E1ctm.ret/E1tppt.ret]
    130 --> 132[CHECK FOR PCS  
SYSTEM]
    132 -- NO --> 134[CREATE APXRCV  
SCRIPT FILE  
E1ceqsu.ret]
    132 -- YES --> 136[CREATE APXRCV  
SCRIPT FILE  
E1resel.ret]
    134 --> 136
    136 --> A((A))

```

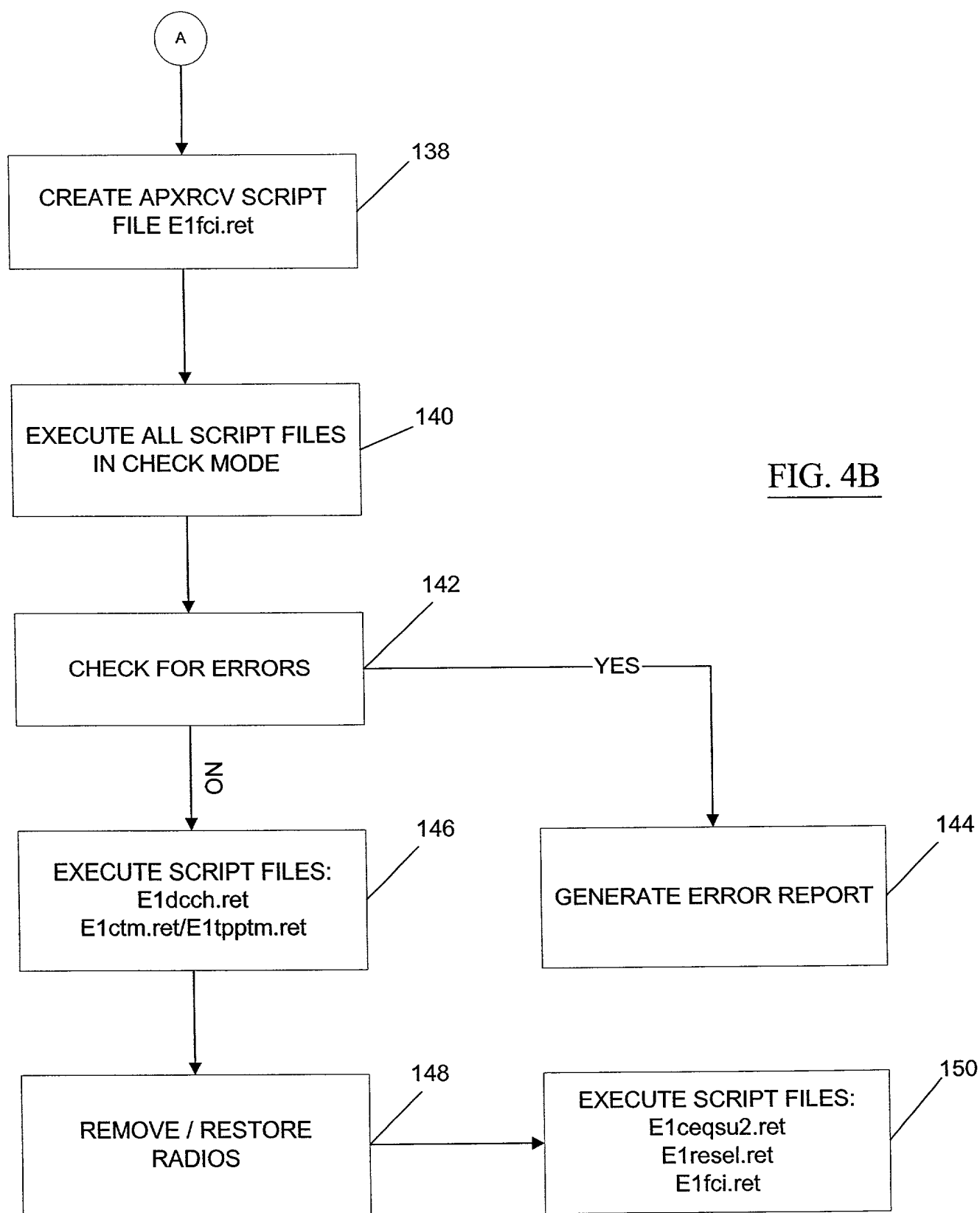


FIG. 4B

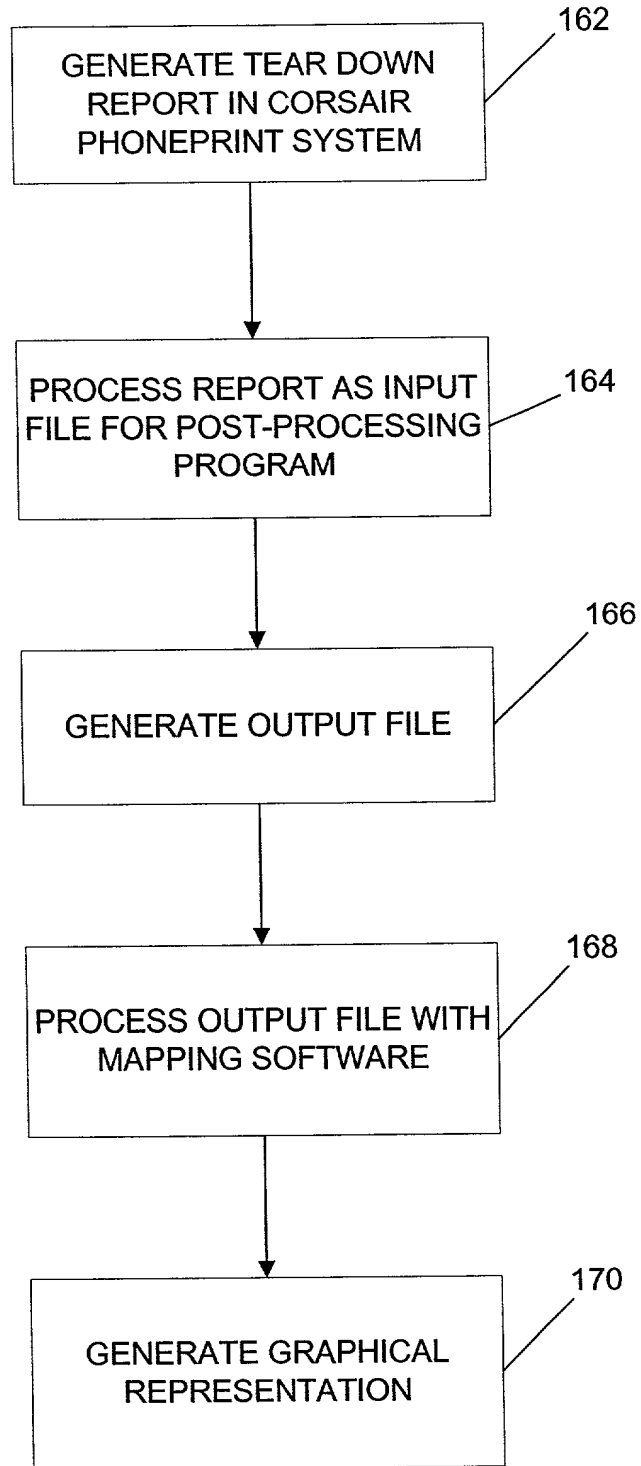


FIG. 5

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down Reason	
12/25/99	19:26:09		20	2012075854	12014981322	MFG
12/23/99	14:56:20		219	2012075854	5617767114	MFG
12/26/99	21:40:32		167	2012130072	19547814445	MFG
12/23/99	19:06:49		82	2012134416	9544289147	MFG
12/23/99	19:06:23		82	2012134416	9544289147	MFG
12/25/99	17:23:55		82	2012134416	9544285083	MFG
12/25/99	15:06:20		82	2012134416	2015680907	MFG
12/25/99	13:04:16		82	2012134416	2015680907	MFG
12/25/99	13:04:05		82	2012134416	2015680907	MFG
12/25/99	13:03:53		82	2012134416	2015680907	MFG
12/25/99	13:03:31		82	2012134416	2015680907	MFG
12/25/99	13:01:49		82	2012134416	2015680907	MFG
12/25/99	12:53:38		82	2012134416	2015680907	MFG
12/25/99	12:52:32		82	2012134416	2015680907	MFG
12/25/99	12:52:03		82	2012134416	2015680907	MFG
12/25/99	12:50:48		82	2012134416	2015680907	MFG
12/25/99	12:48:15		82	2012134416	2015680907	MFG
12/25/99	12:47:16		82	2012134416	5680907	MFG
12/24/99	11:58:50		82	2012134416	8003328463	MFG
12/24/99	11:58:08		82	2012134416	8003328463	MFG
12/24/99	10:03:16		82	2012134416	9544289147	MFG
12/22/99	14:58:09		80	2012300764	19546467166	MFG
12/29/99	10:54:28		177	2012400657	19086881800	MFG
12/29/99	10:51:49		177	2012400657	9412503698	MFG
12/29/99	10:25:04		145	2012400657	12012400657	MFG
12/29/99	10:24:42		145	2012400657	12012400657	MFG
12/27/99	21:26:01		49	2012476225	15616551115	MFG
12/24/99	19:22:48		219	2012476225	15615551212	MFG
12/24/99	19:22:26		219	2012476225	15615551212	MFG
12/24/99	19:22:06		219	2012476225	15615551212	MFG
12/24/99	19:13:38		219	2012476225	5617950022	MFG
12/27/99	12:01:06		20	2012476225	15614996976	MFG
12/23/99	16:23:47		12	2012640686	3105152822	MFG
12/23/99	16:17:19		12	2012640686	3105152822	MFG
12/23/99	16:17:03		12	2012640686	3105152822	MFG

FIG. 6

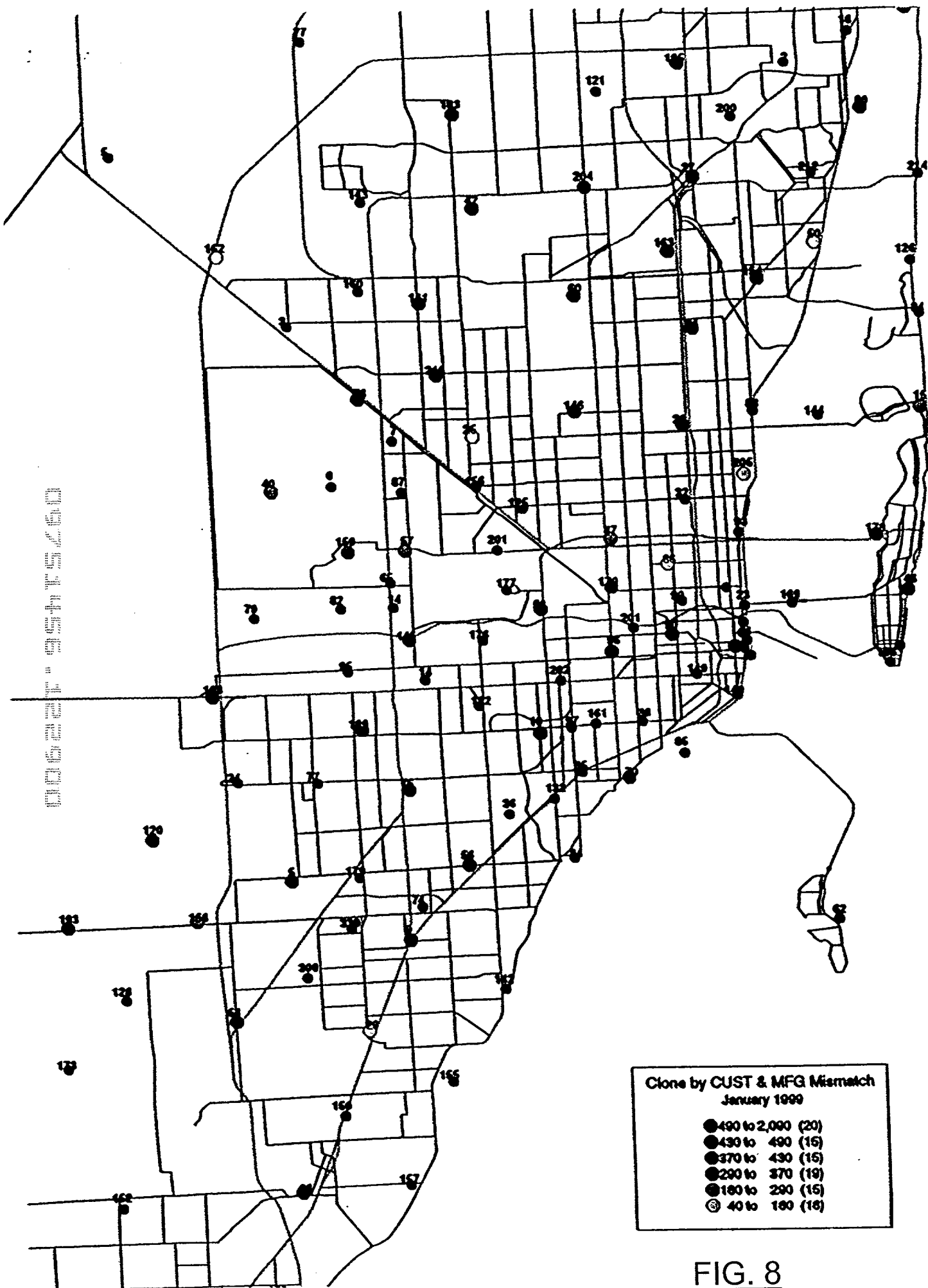


FIG. 8

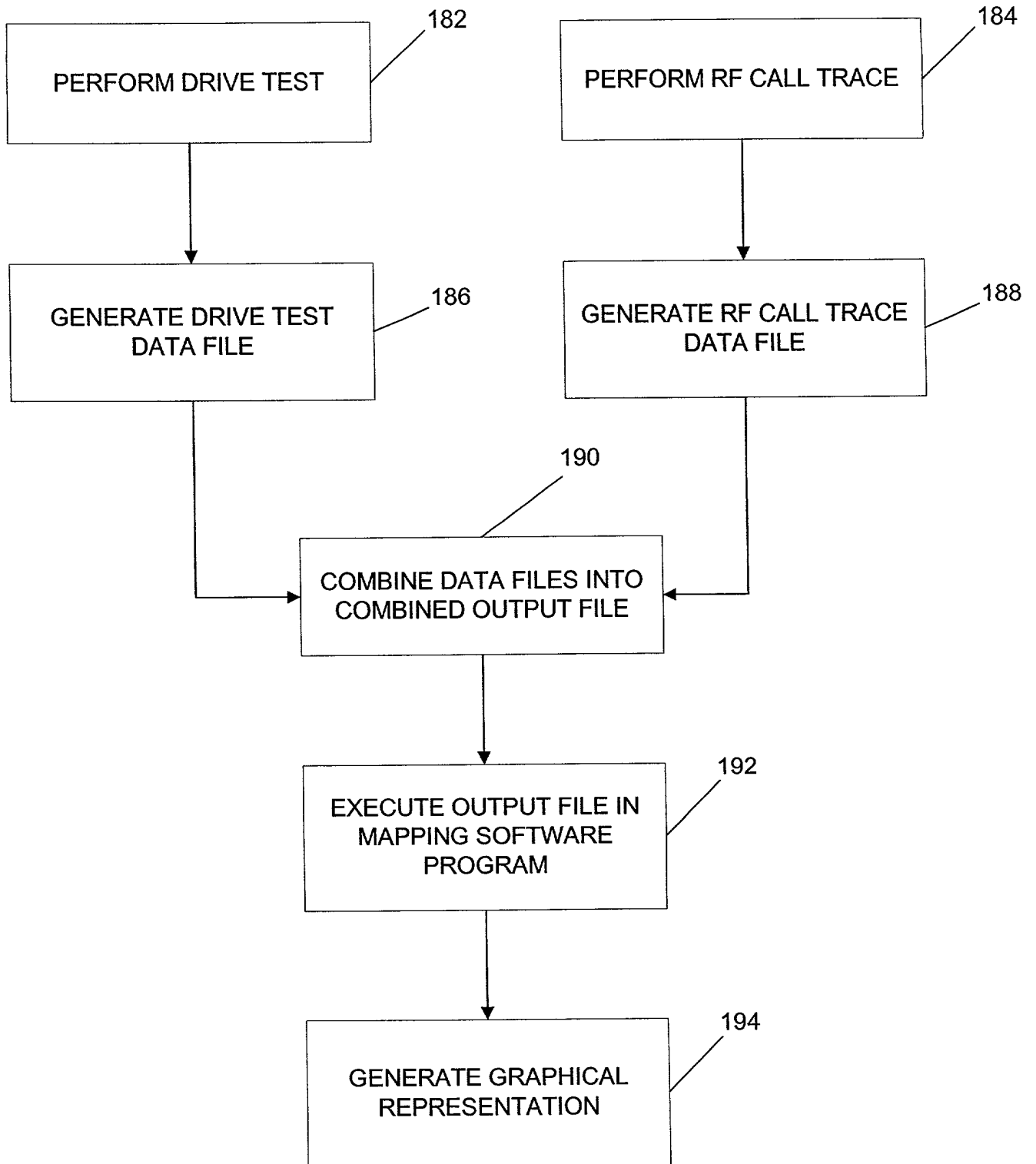


FIG. 9

SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20

SSSTDRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0

BQFVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
15	0	1	0	2

NCELL	NSSFFMC	MEASCHAN	VIND
T017A	5	1260	Y
T017B	23	1272	Y
T006B	17	1300	Y
T016B	13	1305	Y
T004A	29	1251	Y
T005B	33	1302	Y
T005A	23	1290	Y
T018A	21	1294	Y
T154B	21	1303	Y

TIME	PRINTIND	FCODE
11:08:27	0	

END

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0

CANDCELL	CELLTYPE	NTYPE	RATING
T005B	0	STD	0

END

FIG. 10

[illegible]

FIG. 11A

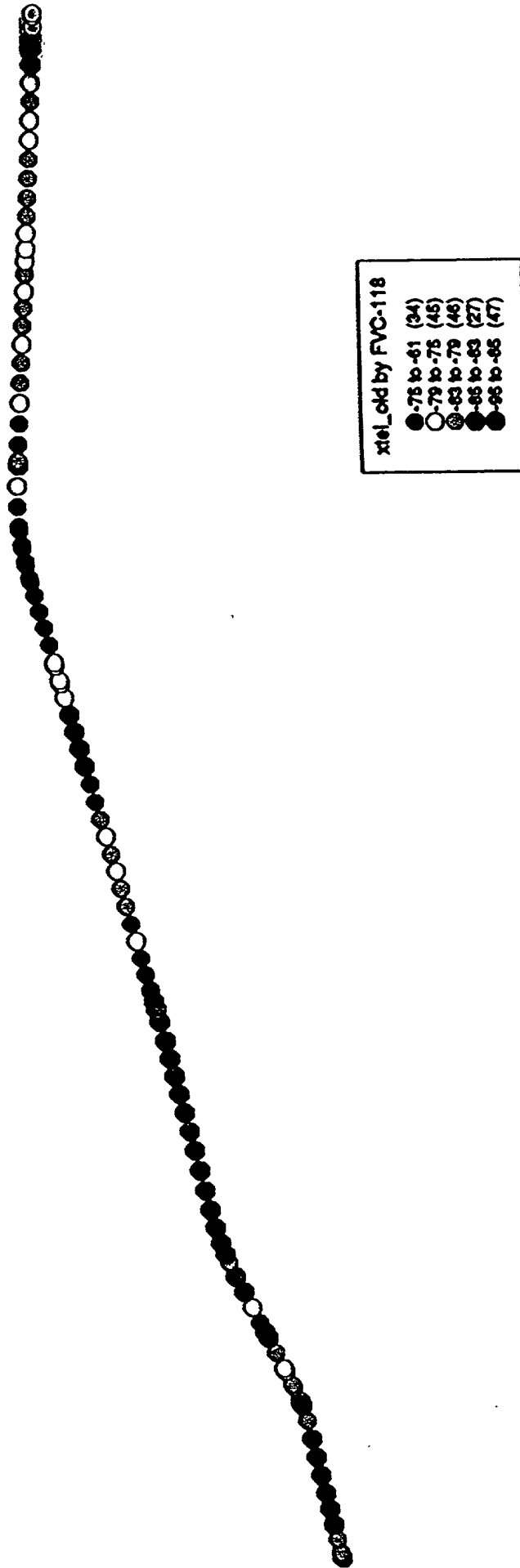
FT
--

R, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT
DEV, FVC, RVC, TDRVC, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0070392,9412580201,T005B,MDVC-
2,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
992,9412580201,T005B

FIG. 11B

FIG. 12



— — — — —

.....
13.21.00.3,28.655,-81.2128

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.45	0.50	0	1
Marital status	0.60	0.49	0	1
Education	12.5	1.5	9	16
Income	15.2	8.5	5	35
Health status	0.75	0.43	0	1
Smoking status	0.30	0.46	0	1
Alcohol consumption	0.20	0.40	0	1
Exercise frequency	0.15	0.35	0	1
Stress level	0.65	0.48	0	1
Sleep quality	0.55	0.50	0	1
Work satisfaction	0.40	0.50	0	1
Life satisfaction	0.50	0.50	0	1
Depression score	10.5	5.5	0	30
Anxiety score	12.0	6.0	0	30
Quality of life score	75.0	15.0	50	100

FIG. 13A

Time,Long,Lat,CellNo,SS,

12:41:29,28.6559300,-81.205792000,1353,-124
12:41:29,28.6559300,-81.205792000,201,-106
12:41:29,28.6559300,-81.205792000,32,-106
12:41:29,28.6559300,-81.205792000,321,-76
12:41:29,28.6559300,-81.205792000,323,-66
12:41:29,28.6559300,-81.205792000,831,-100
12:41:30,28.6559260,-81.205580000,323,-66
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,323,-64
12:41:32,28.6559080,-81.205198000,323,-63
12:41:33,28.6558950,-81.204922000,321,-73
12:41:33,28.6558950,-81.204922000,323,-62
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,322,-98
12:41:34,28.6558900,-81.204769000,323,-61
12:41:35,28.6558900,-81.204577000,1353,-124
12:41:35,28.6558900,-81.204577000,201,-105
12:41:35,28.6558900,-81.204577000,202,-106
12:41:35,28.6558900,-81.204577000,32,-105
12:41:35,28.6558900,-81.204577000,323,-63
12:41:35,28.6558900,-81.204577000,831,-99
12:41:37,28.6558970,-81.204219000,321,-73
12:41:37,28.6558970,-81.204219000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:40,28.6559020,-81.203683000,1353,-122
12:41:40,28.6559020,-81.203683000,202,-104
12:41:40,28.6559020,-81.203683000,32,-105
12:41:40,28.6559020,-81.203683000,321,-73
12:41:40,28.6559020,-81.203683000,322,-96
12:41:40,28.6559020,-81.203683000,323,-67
12:41:41,28.6559070,-81.203457000,321,-72
12:41:41,28.6559070,-81.203457000,323,-66
12:41:42,28.6559100,-81.203125000,321,-71
12:41:42,28.6559100,-81.203125000,323,-66

FIG. 13B

00522T 954560

```
V----- Record # 1: -----V
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#: (407)9223002 Call clear by MS - mobile clear
V----- Record # 2: -----V
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -77 attn 4 snr 40
V----- Record # 3: -----V
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -73
V----- Record # 264: -----V
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 201 / -98
V----- Record # 265: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 322 / -103
V----- Record # 266: -----V
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 831 / -96
V----- Record # 267: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 321 / -78
V----- Record # 268: -----V
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 1353 / -113
V----- Record # 269: -----V
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 202 / -100
V----- Record # 270: -----V
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -72 attn 4 snr 40
V----- Record # 271: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -71
V----- Record # 272: -----V
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 32 / -115
```

FIG. 14

[illegible]

tra0528_out by SS

- -85 to -66 (800)
- -82 to -85 (534)
- -96 to -92 (466)
- -106 to -96 (540)
- -115 to -106 (482)
- -127 to -115 (666)